MINUTE ITEM
This Calendar Item No. C16
was approved as Minute Item
No. 16 by the State Lands
Commission by a vote of 3
to 2 at its 7/15/91
meeting.

CALENDAR ITEM

A 1

S 4

C16

07/15/91
W 24439 PRC 7551
J. Ludlow

APPROVE A GENERAL PERMIT - PROTECTIVE STRUCTURE
AND RECREATIONAL USE

APPLICANT:
Gerald S. Johnston
1583 Arden Way
Anderson, California 96002

AREA, TYPE LAND AND LOCATION:
A 0.011-acre parcel of submerged land located in the Sacramento River near Anderson, Shasta County.

LAND USE:
Use and maintenance of an existing boat dock and riprap bank protection.

TERMS OF PROPOSED PERMIT:
Initial period:
Ten (10) years beginning April 9, 1991.

Public liability insurance:
Combined single limit coverage of $300,000.

CONSIDERATION:
Riprap bank protection: The public use and benefit; with the State reserving the right at any time to set a monetary rental if the Commission finds such action to be in the State's best interest.

Floating dock: The recreational boat dock is rent-free, pursuant to Section 6503.5 of the P.R.C.

BASIS FOR CONSIDERATION:
Pursuant to 2 Cal. Code Regs. 2003.

APPLICANT STATUS:
Applicant is owner of upland.

(ADDED pgs. 74-74.19)

PREREQUISITE CONDITIONS, FEES AND EXPENSES:

Filing fee and application processing costs have been received. Environmental processing costs have not been received.

STATUTORY AND OTHER REFERENCES:

A. P.R.C.: Div. 6, Parts 1 and 2; Div. 13.

B. Cal. Code Regs.: Title 3, Div. 3; Title 14, Div. 6.

AB 884:

N/A.

OTHER PERTINENT INFORMATION:

1. Pursuant to the Commission's delegation of authority and the State CEQA Guidelines (14 Cal. Code Regs. 15025), the staff has prepared a Proposed Negative Declaration identified as EIR ND 542, State Clearinghouse No. 91013012. Such Proposed Negative Declaration was prepared and circulated for public review pursuant to the provisions of CEQA.

   Based upon the Initial Study, the Proposed Negative Declaration, and the comments received in response thereto, there is no substantial evidence that the project will have a significant effect on the environment. (14 Cal. Code Regs. 15074[B])

2. This activity involves lands identified as possessing significant environmental values pursuant to P.R.C. 6370, et seq. Based upon the staff's consultation with the persons nominating such lands and through the CEQA review process, it is the staff's opinion that the project, as proposed, is consistent with its use classification.

3. The recreational dock is rent-free, pursuant to Section 6503.5 of the P.R.C. and has been combined with the riprap bank protection in one permit for ease of recordkeeping and to eliminate the issuance of two separate permits for the same area.

APPROVALS OBTAINED:

Shasta County, Department of Fish and Game, and the United States Army Corps of Engineers.

FURTHER APPROVALS REQUIRED:
None.

EXHIBITS:

A. Land Description
B. Location Map
C. Letter of Job Approval from Shasta County
D. Mitigated Project/Negative Declaration
E. Mitigation Measures incorporated into the Project Description.

IT IS RECOMMENDED THAT THE COMMISSION:

1. CERTIFY THAT A NEGATIVE DECLARATION, EIR ND 542, STATE CLEARINGHOUSE NO. 91013012, WAS PREPARED FOR THIS PROJECT PURSUANT TO THE PROVISIONS OF THE CEQA AND THAT THE COMMISSION HAS REVIEWED AND CONSIDERED THE INFORMATION CONTAINED THEREIN.

2. DETERMINE THAT THE PROJECT, AS APPROVED, WILL NOT HAVE A SIGNIFICANT EFFECT ON THE ENVIRONMENT.

3. AUTHORIZE ISSUANCE TO GERALD S. JOHNSTON OF TEN-YEAR GENERAL PERMIT - PROTECTIVE STRUCTURE AND RECREATIONAL USE, EFFECTIVE APRIL 9, 1991, FOR THE USE AND MAINTENANCE OF AN EXISTING DOCK AND RIPRAP BANK PROTECTION ON THE LAND DESCRIBED ON EXHIBIT "A" AND BY REFERENCE MADE A PART HEREOF.

EXHIBIT "A"

W 24439

LAND DESCRIPTION

Two parcels of submerged land in the bed of the Sacramento River, situated in Shasta County, California, more particularly described as follows:

PARCEL 1

That five foot strip of land lying waterward and parallel with ordinary low water line situated adjacent to Lot 2, Tract No. 1161, Wildwood Shores Subdivision, recorded on May 26, 1966, in Book 13 of Maps at Page 18 of said county, more particularly described as follows:

BEGINNING at the intersection of the westerly line of said Lot 2 with the ordinary low water line; thence southeasterly along the ordinary low water line 50.01 feet to a point hereafter known as point "A"; thence continuing along said water line 50.01 feet to the intersection of the easterly line of said Lot 2.

PARCEL 2

That strip of submerged land 20 feet wide lying 10 feet on each side of the following described centerline:

BEGINNING at point "A" in the abovementioned Parcel 1; thence northeasterly and perpendicular to the ordinary low water line, a distance of 30 feet.

EXCEPTING THEREFROM that portion of submerged land described in said Parcel 1.

END OF DESCRIPTION

PREPARED JANUARY, 1991 BY LLB.

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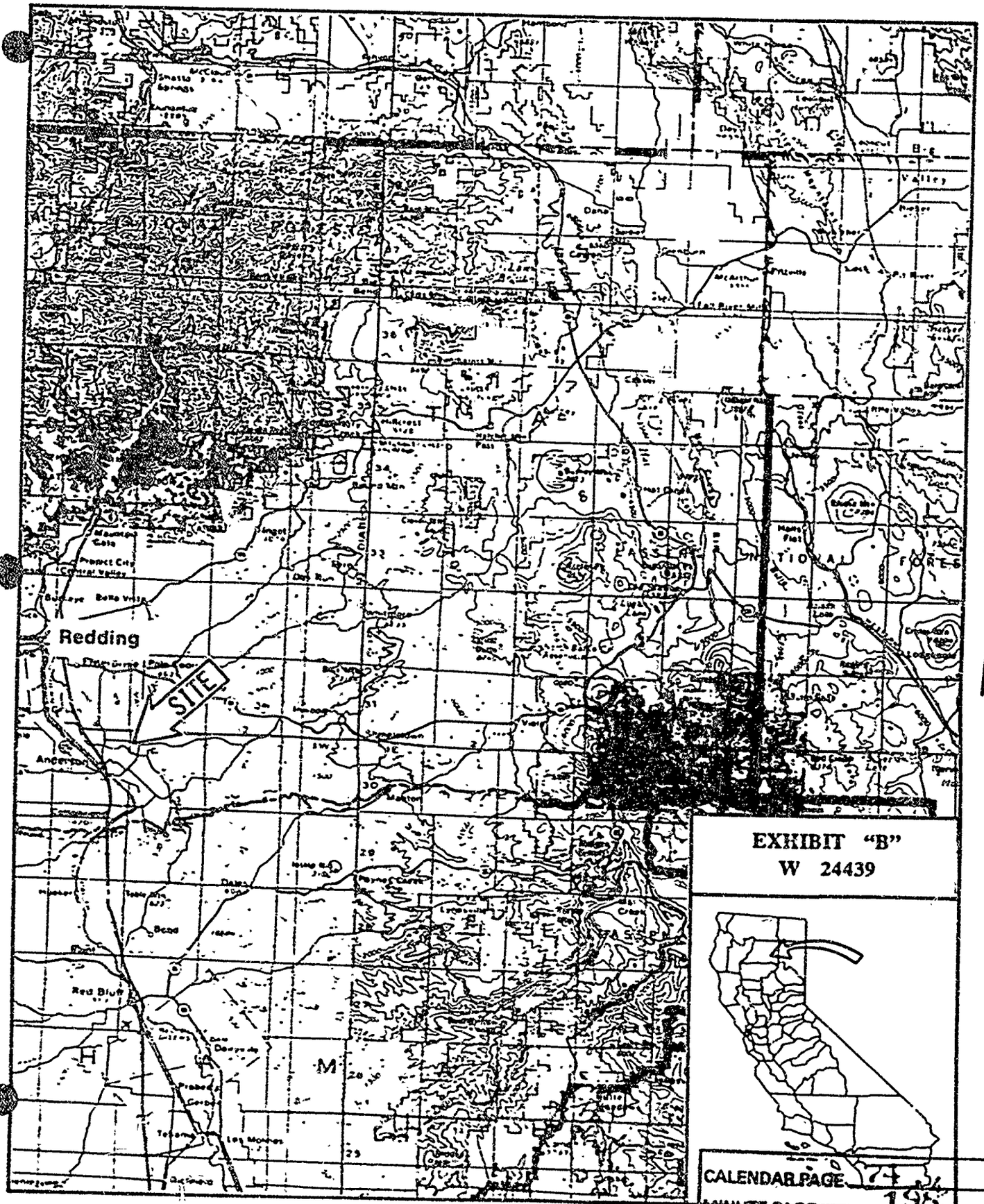

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EXHIBIT "C"

SHASTA COUNTY

COMMUNITY DEVELOPMENT DEPARTMENT

BUILDING DIVISION

JOE HUNTER
CHIEF BUILDING OFFICIAL

RALPH S. OVERBAY
CHIEF BUILDING INSPECTOR

1855 Placer Street
Redding, CA 96001
(916) 225-5761

October 12, 1990

State Lands Commission
1807 13th Street
Sacramento, CA 95814

RE: Gerry Johnston, 1583 Arden Way, Anderson, CA 96007

Dear Mrs. Judy Ludlow:

Please find enclosed is a copy of the building permit No. 46931 for a retaining wall for the above referenced person. The job was finaled by this office on 10/9/90.

If we can be of further assistance please phone me.

Very truly yours,

Joe Hunter
Community Building Director

Ralph S. Overbay
Chief Building Inspector

Joe Reeves SH,
Joe Reeves
Assistant Chief Building Inspector

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EXHIBIT "D"

STATE OF CALIFORNIA

PETE WILSON, *Governor*

STATE LANDS COMMISSION

LEO T. McCARTHY, *Lieutenant Governor*
GRAY DAVIS, *Controller*
THOMAS W. HAYES, *Director of Finance*

EXECUTIVE OFFICE
1807 - 13th Street
Sacramento, CA 95814

CHARLES WARREN
Executive Officer

May 21, 1991
File Ref.: W 24439
EIR ND: 542

NOTICE OF PUBLIC REVIEW OF A NEGATIVE DECLARATION
(SECTION 15073 CFR)

A Negative Declaration has been prepared pursuant to the requirements of the California Environmental Quality Act (Section 21000 et seq., Public Resources Code), the State CEQA guidelines (Section 15000 et seq., Title 14, California Code Regulations), and the State Lands Commission Regulations (Section 2901 et seq., Title 2, California Code Regulations) for a project currently being processed by the staff of the State Lands Commission.

The document is attached for your review. Comments should be addressed to the State Lands Commission office shown above with attention to the undersigned. All comments must be received by June 21, 1991.

Should you have any questions or need additional information, please call the undersigned at (916) 323-7209.

JACQUES GRABER
Division of Environmental
Planning and Management

Attachment

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STATE OF CALIFORNIA

PETE WILSON, Governor

STATE LANDS COMMISSION

LEO T. McCARTHY, Lieutenant Governor
GRAY DAVIS, Controller
THOMAS W. HAYES, Director of Finance

EXECUTIVE OFFICE
1807 - 13th Street
Sacramento, CA 95814

CHARLES WARREN
Executive Officer

PROPOSED NEGATIVE DECLARATION

EIR ND: 2

File: W 24439

SCH No.: 91013021

Project Title:	Johnston -- Authorization of Existing Bank Protection Wall & Boat Dock
Proponents:	Gerry S. Johnston
Project Location:	West bank of the Sacramento River, River Mile 281, at 1583 Arden Way, Anderson, Shasta County.
Project Description:	Authorization to retain an existing concrete/cobble wall for bank protection and 6'x 10' boat dock.
Contact Person:	Jacques Graber Telephone: 916/323-7209

This document is prepared pursuant to the requirements of the California Environmental Quality Act (Section 21000 et seq., Public Resources Code), the State CEQA Guidelines (Section 15000 et seq., Title 14, California Code Regulations), and the State Lands Commission regulations (Section 2901 et seq., Title 2, California Code Regulations).

Based upon the attached Initial Study, it has been found that:

/_/ this project will not have a significant effect on the environment.

/X/ mitigation measures included in the project will avoid potentially significant effects.

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STATE LANDS COMMISSION

ENVIRONMENTAL IMPACT ASSESSMENT CHECKLIST – PART II

Form 13.20 (7/82)

File Ref.: W 24439

BACKGROUND INFORMATION

A Applicant: Gerald S. Johnston
1583 Arden Way
Anderson, CA 96007

B. Checklist Date: 05 / 20 / 91

C Contact Person: Jacques Graber

Telephone: (916) 323-7209

D Purpose: Application for existing bank protection and boat dock

E Location: Sacramento River, River Mile 281, applicant property at 1583 Arden Way, Anderson, Shasta County.

F Description: Authorization of existing riverbank protection, consisting of 150 cubic yards of gravel and 150 cubic yards of concrete for a 102' bank protection, and retention of a 6'x 10' boat dock.

G. Persons Contacted:

II. ENVIRONMENTAL IMPACTS. *(Explain all "yes" and "maybe" answers)*

A. *Earth.* Will the proposal result in:

	Yes	Maybe	No
1. Unstable earth conditions or changes in geologic substructures?	☐	☐	X
2. Disruptions, displacements, compaction, or overcovering of the soil?	X	☐	☐
3. Change in topography or ground surface relief features?	X	☐	☐
4. The destruction, covering, or modification of any unique geologic or physical features?	X	☐	☐
5. Any increase in wind or water erosion of soils, either on or off the site?	☐	☐	X
6. Changes in deposition or erosion of beach sands, or changes in siltation, deposition or erosion which may modify the channel of a river or stream or the bed of the ocean or any bay, inlet, or lake?			
7. Exposure of all people or property to geologic hazards such as earthquakes, landslides, mudslides, ground failure, or similar hazards?			

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	Yes	Maybe	No
5 b. Will the proposal result in			
1. Substantial air emissions or deterioration of ambient air quality?		X	
2. The creation of objectionable odors?		X	
3. Alteration of air movement, moisture or temperature, or any change in climate, either locally or regionally?			X
C. *Water.* Will the proposal result in			
1. Changes in the currents, or the course or direction of water movements, in either marine or fresh waters?			X
2. Changes in absorption rates, drainage patterns, or the rate and amount of surface water runoff?		X	
3. Alterations to the course or flow of flood waters?			X
4. Change in the amount of surface water in any water body?			X
5. Discharge into surface waters, or in any alteration of surface water quality, including but not limited to temperature, dissolved oxygen or turbidity?		X	
6. Alteration of the direction or rate of flow of ground waters?			X
7. Change in the quantity of ground waters, either through direct additions or withdrawals, or through interception of an aquifer by cuts or excavations?			X
8. Substantial reduction in the amount of water otherwise available for public water supplies?			X
9. Exposure of people or property to water-related hazards such as flooding or tidal waves?			X
10. Significant changes in the temperature, flow or chemical content of surface thermal springs?			X
D. *Plant Life.* Will the proposal result in:			
1. Change in the diversity of species, or number of any species of plants (including trees, shrubs, grass, crops, and aquatic plants)?		X	
2. Reduction of the numbers of any unique, rare or endangered species of plants?			X
3. Introduction of new species of plants into an area, or in a barrier to the normal replenishment of existing species?			X
4. Reduction in acreage of any agricultural crop?			X
E. *Animal Life.* Will the proposal result in			
1. Change in the diversity of species, or numbers of any species of animals (birds, land animals including reptiles, fish and shellfish, benthic organisms, or insects)?		X	
2. Reduction of the numbers of any unique, rare or endangered species of animals?			X
3. Introduction of new species of animals into an area, or result in a barrier to the migration or movement of animals?			X
4. Deterioration to existing fish or wildlife habitat?	X		
F. *Noise.* Will the proposal result in:			
1. Increase in existing noise levels?		X	
2. Exposure of people to severe noise levels?			X
G. *Light and Glare.* Will the proposal result in:			
1. The production of new light or glare?			X
H. *Land Use.* Will the proposal result in:			
1. A substantial alteration of the present or planned land use of an area?			X
I. *Natural Resources.* Will the proposal result in:			
1. Increase in the rate of use of any natural resources?			X
2. Substantial depletion of any nonrenewable resources?			X

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J. *Risk of Upset.* Does the proposal result in:

	Yes	Maybe	No
1. A risk of an explosion or the release of hazardous substances (including, but not limited to, oil, pesticides, chemicals, or radiation) in the event of an accident or upset conditions?	☐	☐	X
2. Possible interference with emergency response plan or an emergency evacuation plan?	☐	☐	X
K. *Population.* Will the proposal result in:			
1. The alteration, distribution, density, or growth rate of the human population of the area?	☐	☐	X
L. *Housing.* Will the proposal result in:			
1. Affecting existing housing, or create a demand for additional housing?	☐	☐	X
M. *Transportation/Circulation.* Will the proposal result in:			
1. Generation of substantial additional vehicular movement?	☐	☐	X
2. Affecting existing parking facilities, or create a demand for new parking?	☐	☐	X
3. Substantial impact upon existing transportation systems?	☐	☐	X
4. Alterations to present patterns of circulation or movement of people and/or goods?	☐	☐	X
5. Alterations to waterborne, rail, or air traffic?	☐	☐	X
6. Increase in traffic hazards to motor vehicles, bicyclists, or pedestrians?	☐	☐	X
N. *Public Services.* Will the proposal have an effect upon, or result in a need for new or altered governmental services in any of the following areas:			
1. Fire protection?	☐	☐	X
2. Police protection?	☐	☐	X
3. Schools?	☐	☐	X
4. Parks and other recreational facilities?	☐	☐	X
5. Maintenance of public facilities, including roads?	☐	☐	X
6. Other governmental services?	☐	☐	X
O. *Energy.* Will the proposal result in:			
1. Use of substantial amounts of fuel or energy?	☐	☐	X
2. Substantial increase in demand upon existing sources of energy, or require the development of new sources?	☐	☐	X
P. *Utilities.* Will the proposal result in a need for new systems, or substantial alterations to the following utilities:			
1. Power or natural gas?	☐	☐	X
2. Communication systems?	☐	☐	X
3. Water?	☐	☐	X
4. Sewer or septic tanks?	☐	☐	X
5. Storm water drainage?	☐	☐	X
6. Solid waste and disposal?	☐	☐	X
Q. *Human Health.* Will the proposal result in:			
1. Creation of any health hazard or potential health hazard (excluding mental health)?	☐	☐	X
2. Exposure of people to potential health hazards?	☐	☐	X
R. *Aesthetics.* Will the proposal result in:			
1. The obstruction of any scenic vista or view open to the public, or will the proposal result in the creation of an aesthetically offensive site open to public view?	☐	X	
S. *Recreation.* Will the proposal result in:			
1. An impact upon the quality or quantity of existing recreational opportunities?			

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	Yes	Maybe	No
T *Cultural Resources*			
1. Will the proposal result in the alteration of or the destruction of a prehistoric or historic archeological site?	[ ]		X
2. Will the proposal result in adverse physical or aesthetic effects to a prehistoric or historic building, structure, or object?	[ ]		X
3. Does the proposal have the potential to cause a physical change which would affect unique ethnic cultural values?	[ ]		X
4. Will the proposal restrict existing religious or sacred uses within the potential impact area?	[ ]		X
U *Mandatory Findings of Significance*			
1. Does the project have the potential to degrade the quality of the environment, reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?	[ ]		X
2. Does the project have the potential to achieve short term to the disadvantage of long-term, environmental goals?	[ ]		X
3. Does the project have impacts which are individually limited, but cumulatively considerable?	[ ]	X	
4. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	[ ]		X

III. DISCUSSION OF ENVIRONMENTAL EVALUATION *(See Comments Attached)*

(See Attached)

IV. PRELIMINARY DETERMINATION

On the basis of this initial evaluation:

[ ] I find the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

[X] I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures described on an attached sheet have been added to the project. A NEGATIVE DECLARATION will be prepared.

[ ] I find the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is requied.

Date: / /

For the State Lands Commission

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A.2. Disruptions, etc. The project involves the existing placement of 150 cubic yards of gravel and 150 cubic yards of concrete along 102 linear feet of riverbank along the west bank of the Sacramento River, River mile 281 in the City of Anderson, Shasta County, California. The riverbank reinforcement involves the placement of concrete, gravel and rocks forming a sloping wall approximately six feet tall. A concrete walkway is planned at the top of the wall.

The bank along the river, on which the wall is located, lacks natural vegetation or any naturally bare ground. The surface features along the bank slope and atop the wall are modified to accommodate the project design. A bench is located on top of the wall. A path, terrace, spa and barbecue are located along this bench. This structure will stabilize this portion of the riverbank, protecting it from erosion during normal to moderate stream flows.

With placement of the concrete there is no exposed soil to support riparian vegetation. To mitigate impacts to plant diversity, the applicant will plant five native Willow trees waterward of the concrete wall, pursuant to requirements from the U.S. Fish and Wildlife Service.

A.3. Topography - The surface relief has been modified for this project. The sloping riverbank is graded for placement of concrete and rock to form a wall. The top of the bank is altered by placement of a bench approximately five to ten feet in width. Slopes uphill of the bench are further modified for placement of a spa, terrace and barbecue. The terrace is constructed in an arcuate form with a bench for seating. A back wall rises approximately five feet above the grade of the path. The slope behind this terrace is planted with garden shrubs and flowers.

A low retaining wall parallels the main bank wall. A broad path leads from this landscaping up to the house. The streambank relief has been greatly altered from its natural state.

A.4. Covering - The project involves the alteration and covering of physical features and soil along the riverbank. The sensitivity of the site location as spawning grounds makes the surface features in that area valuable for fish and land riparian environment.

The surface features of the bank and adjacent slope are radically modified from their original natural profile. The site does not resemble the natural environment along that part of the river. An existing layer of concrete and six inch cobbles has been placed on the site by a previous landowner, covering most of the soil's surface. This covering prohibits growth of foliage, the overhanging of which can furnish shelter for fish which can promote spawning and shorezone wildlife. To mitigate this impact, the applicant will plant five native Willow trees waterward of the concrete wall,

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pursuant to requirements of the U.S. Fish and Wildlife Service.

A.6. Deposition, etc. - The placement of the concrete protection will alter the erosion pattern along that part of the river channel. The project is one of several bank protection walls forming one continuous structure. Their cumulative effect could cause a change in stream velocity and flow pattern. The project site is located at a river bend where erosion can occur with greater speed than at a straight stream alignment. The stream bank cladding could affect the channel movements in the future; freezing this part of the channel erosion pattern. This armorment can affect the erosive pattern along the river, which may affect siltation. A single wall may not create a significant impact, but the cumulative impact of many walls can affect stream channel behavior and siltation in the river. Certain impacts may affect sediment load in streams which can affect source sand supplies for ocean (and river) beach nourishment patterns downstream. The existing dock will not affect erosion or sediment patterns.

B.1. Air Emissions - Air emissions may result from the construction phase of the project. Concrete, gravel, sand and cobbles must be brought to the site. Air emissions would increase during the transportation stages as trucks bring the materials to the site. Such impacts would be local and occur during the construction of the wall. Upon completion of the project, ambient air quality would return to pre-project levels. As this is an existing structure, these impacts will not be manifested at this time.

B.2. Odors - Objectionable odors could result from the construction phase of the project. The materials must be brought to the site by truck. Some exhaust emissions may result from this transportation and construction operation. Objectionable odors and affected air quality would be limited to the project site and last for the duration of construction. Air quality would return to pre-project levels upon completion of construction. As this is an existing structure, these impacts will not occur at this time.

C.2. Drainage - The project involves the covering of natural soil slopes with a layer of concrete and cobbles and aggregate surfaced concrete walks. This concrete will prohibit exposure of soil for vegetation growth and moisture entrapment. During rainstorms, rain water will not be able to penetrate the soil nor will vegetation be able to trap this rain for growth. The water will run off the concrete slope directly into the Sacramento River. This single project will not have an effect on stream flow. It is unk[illegible] what cumulative effect many projects of this type would have on surface runoff and stream flow.

C.5. Discharge - Some discharge into the Sacramento River could occur. During the construction phase, some concrete could wash into the water of the river. Efforts will be made to minimize this impact. Watering of the concrete while it cures could wash material into the river. As this is an existing structure, these impacts will not occur at this time.

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Upon completion, a small amount of dust, dirt or debris could be washed into the river during rainstorms or while the applicant is maintaining the yard. This impact is expected to be minimal.

D.1. Plant Diversity - The project involves the covering of 102 feet of river bank and a portion of the upland. This complete coverage will remove the surface soil from any future plant colonization. The concrete layer prohibits any natural riparian vegetation from growing along this portion of river bank. The presence of similar projects contiguous to each other will create gaps in the riparian vegetation community, reducing the available riverbank environment for plant communities. This impact will remain for the duration of the project life. Introduction of cultivated garden plants reduces the opportunity for occupation by native plant species. The applicant will plant five Willow trees waterward of the concrete wall to mitigate the impacts to plant diversity, pursuant to U.S. Fish and Wildlife requirements.

E.1. Animal Diversity - The project creates an impact by covering the riverbank with concrete which will prohibit growth of riparian vegetation. This impacts the availability of vegetation cover for associated riparian wildlife.

Most river animal life requires the presence of vegetation for protective cover and food. Land based wildlife moves primarily along continuous plant communities and usually avoids interruptions or open areas in such plant communities. Occupancy by humans also affects wildlife behavior; the tendency being to avoid development. This impact will affect species diversity in the community.

Plant cover and natural stream bottom conditions influence fish population trends. Fish prefer stream bank vegetation for protective cover and associated food source. Lack of vegetation usually is less attractive for fish to occupy that portion of river bank environment. To mitigate this impact, the applicant will plant five Willow trees waterward of the concrete wall, pursuant to requirements of the U.S. Fish and Wildlife Service.

E.4. Deterioration - The presence of the concrete bank covering and associated cladding upland will cause a deterioration of the natural stream bank habitat. Lack of exposed soil and associated vegetation cover will reduce occupation of this site by wildlife populations on land or fish populations which may take advantage of vegetation overhang for shelter and food. The concrete further bars population by ground burrowing wildlife. Such stream bank alterations also create barriers to longitudinal migrations by wildlife along the stream bank environment. This impact will remain for the serviceable life of the project. To mitigate this impact, the applicant will plant five Willow trees waterward of the concrete wall.

F.1. Noise - Noise levels would increase during the construction phase of the project. Concrete and gravel, aggregate transport trucks would generate the major portion of this noise. Noise levels will return to pre-project levels after the construction is

completed. Noise is not a concern at this time as the application is for an existing structure.

R.1. Aesthetics - The project will significantly alter the portion of stream bank most visible from the river. A 102 foot portion of the bank will be cleared of vegetation and the wall installed. The wall rises six feet above the river with a second wall approximately three feet higher above it. All natural vegetation is removed. Landscape vegetation is intended above the second wall.

The concrete and cobble coating will completely cover the soil surface creating a definite artificial landscape. This impact will remain for the serviceable life of the structure. To reduce visual impacts, the applicant will plant five Willow trees waterward of the concrete wall.

U.4. The project is on an individual parcel of land along the west bank of the Sacramento River. It covers a 102 foot length of riverbank, removing all natural habitat for its construction. Unto itself, the project does not create a significant impact.

On the other hand, the proposed project is located adjacent to homeowners with similar structures. The cumulative effect of several such projects contiguous with each other can create a much more significant barrier to wildlife movements within a former riparian corridor. Nonsoil banks can cause a greater incidence of runoff as there is no soil to absorb rain fall. This can cause higher stream flow if enough cumulative impact is created.

The physical barrier against streambank erosion can create an impact on the natural stream channel movements or meandering. The wall in conjunction with other walls adjacent to it, may affect channel water velocity and future erosion patterns along that part of the river channel.

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MITIGATIONS WHICH HAVE BEEN INCORPORATED IN THE PROJECT

A.2., A.4., D.1., E.1., R.1.

To mitigate the impact to native plant diversity, the applicant will plant five native Willow trees within the river channel, in front (waterward) of the concrete wall, pursuant to requirements from the U.S. Fish and Wildlife Service.

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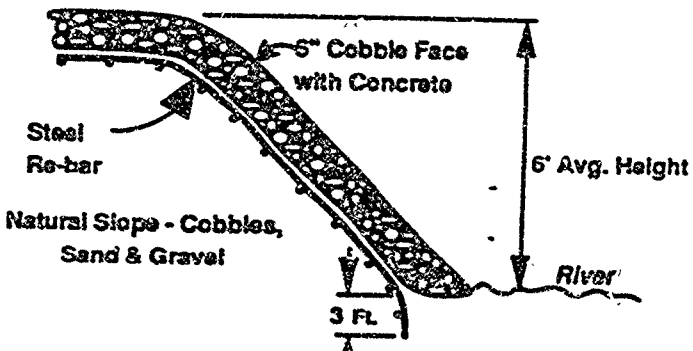

CROSS-SECTION A-A
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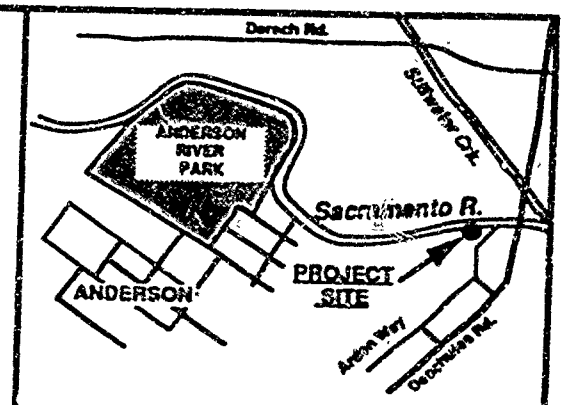

VICINITY MAP
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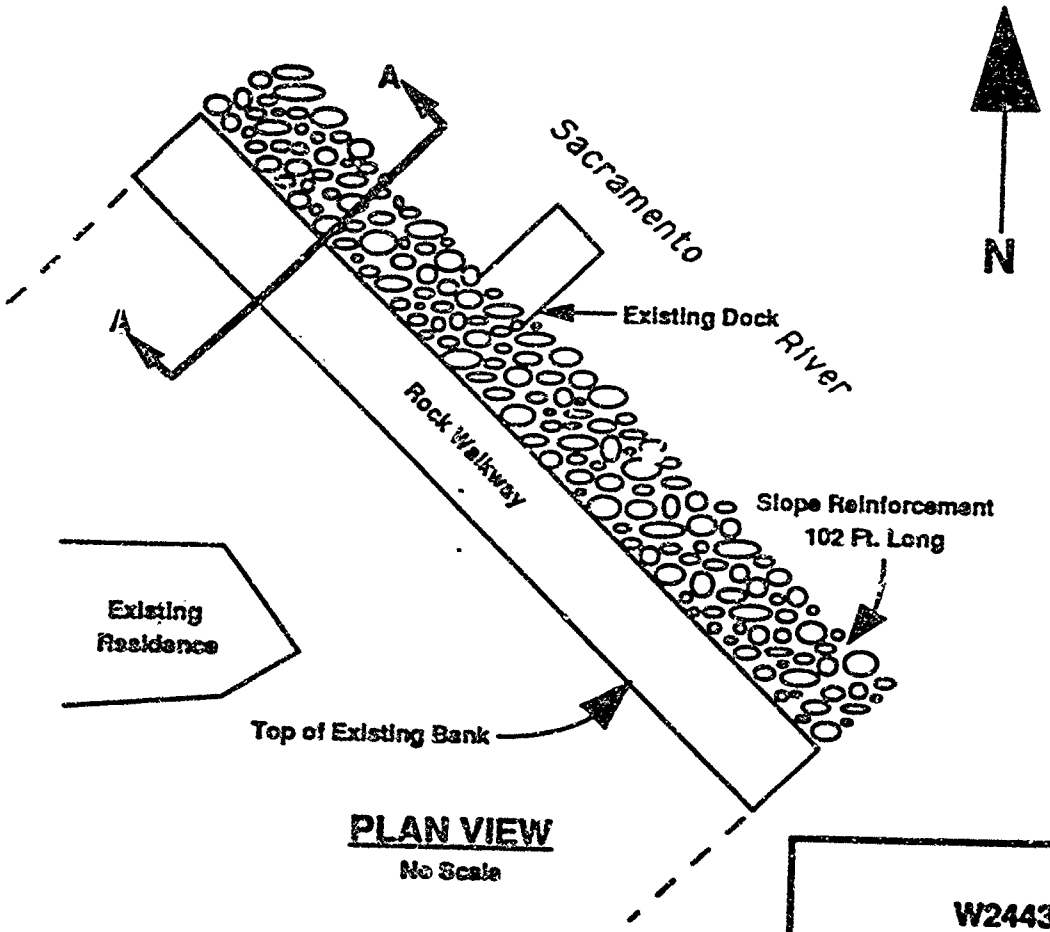

PLAN VIEW
No Scale

W24439
GERRY JOHNSTON
Applicant
RETAIN CONCRETE
BANK PROTECTION
AND DOCK

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EXHIBIT "E"

Mitigation Measures

Impact:

The project involves the existing placement of approximately 150 cubic yards of gravel and 150 cubic yards of concrete along 102 linear feet of riverbank along the west bank of the Sacramento River,river mile 281 in the city of Anderson, Shasta County, California. The riverbank reinforcement involves the placement of concrete, gravel and rocks forming a sloping wall approximately six feet tall. The bank along the river, on which the wall is located, lacks naturally bare ground or naturally occurring native vegetation, creating a gap in the riparian vegetation habitat along the river. This impact affects native plant diversity and available native habitat for wildlife and fish.

Mitigation:

To mitigate the impacts to native plant diversity and removal of shelter vegetation for wildlife and fish, the applicant will plant five native willow trees within the river channel in front (waterward) of the concrete wall, pursuant to requirements of the U.S. Fish and Wildlife Service.

Mitigation Procedures:

To insure the mitigation procedures comply with the requirements set forth by Fish and Wildlife service, State Lands Commission Staff or an appointed designee will visit the project site at several times to visually inspect the plantings. The visits will be scheduled to cover a two-year period from date of planting, following this schedule:

1: 1st Day of Planting: The applicant will notify Commission Staff three days in advance of planting to allow for an appointment for visual inspection of the plantings by Staff or a designee.

2: 2nd Inspection: Spring: After major floods have subsided, an inspection of the plantings will be conducted to determine survival of the plantings. Commission staff, or its designee will contact the applicant three (3) days in advance of the intended date of inspection to arrange to inspect the site.

3: 3rd. Inspection: Fall: Inspection of the site will be conducted to determine survivability of the plantings through the summer. Commission Staff will notify the applicant as stipulated in Item 2 above. If any plantings have been washed away or died the Staff inspecting the project shall notify Mike Long of the U.S. Fish and Wildlife Service at (916)978-4613 so staff from USFWLS may inspect the site and determine cause of mortality and resolve the problem. If it is possible to replace the planting, the applicant will replace the tree upon USFWLS staff's recommendation. If the planting is determined not to survive, the planting need not be replaced.

4. 4th. Inspection: Following Summer: A final inspection shall be made by Commission Staff or its Designee to determine final survival. Procedures in notifying the applicant as established in Item 2 will be followed. There will be no followup.

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